



NX10

INTRODUCTION



Universal Handheld

Why ?

The NX10 interfaces with several multiprobes:

- **YSI® 6 series**
- **YSI® EXO® series**
- **HydroTech Compact series**
- **Hydrolab® series 3, 4, 4A, and 5**
- **Hydrolab® HL4**
- **Eureka® Manta**
- **In-situ® Aqua TROLL 200**
- **And more**

More than just a handheld ?

- **The NX10 is a full windows 8.1 PC packed into an ultra rugged tablet format.**
- **The NX10 will seamlessly take you from field work to office work.**

Thanks to its special features:

- **Physical characteristics:** Portability and high performance
- **Performance:** Not a tablet
- **Specs:** Born rugged not ruggedized
- **Power:** Flexibility and ease
- **Communication:** Ethernet, WIFI, Bluetooth & Data
- **Connectivity:** Old and new
- **Accessories:** Goes anywhere

Physical Characteristics

Dimensions:

275 x 171 x 32 mm
(10.8" x 6.7" x 1.2")

Weight

1.3 kg (2.9 lbs)

Screen:

10.1" Widescreen (1366 x 768)

LED high brightness

MaxView™ technology

Resistive single touch

Ambient light sensor



Performance

Processor:

Intel® Quad-core N2930
1.83 GHz with 2.16 GHz boost

Memory:

4 GB DDR3 RAM
128 GB SSD

Operating system:

Microsoft Windows 8.1 Pro

Down gradable to Windows 7 & upgradable to Windows 10

Specs

Ingress Protection: IP65

Mil-STD-810G:

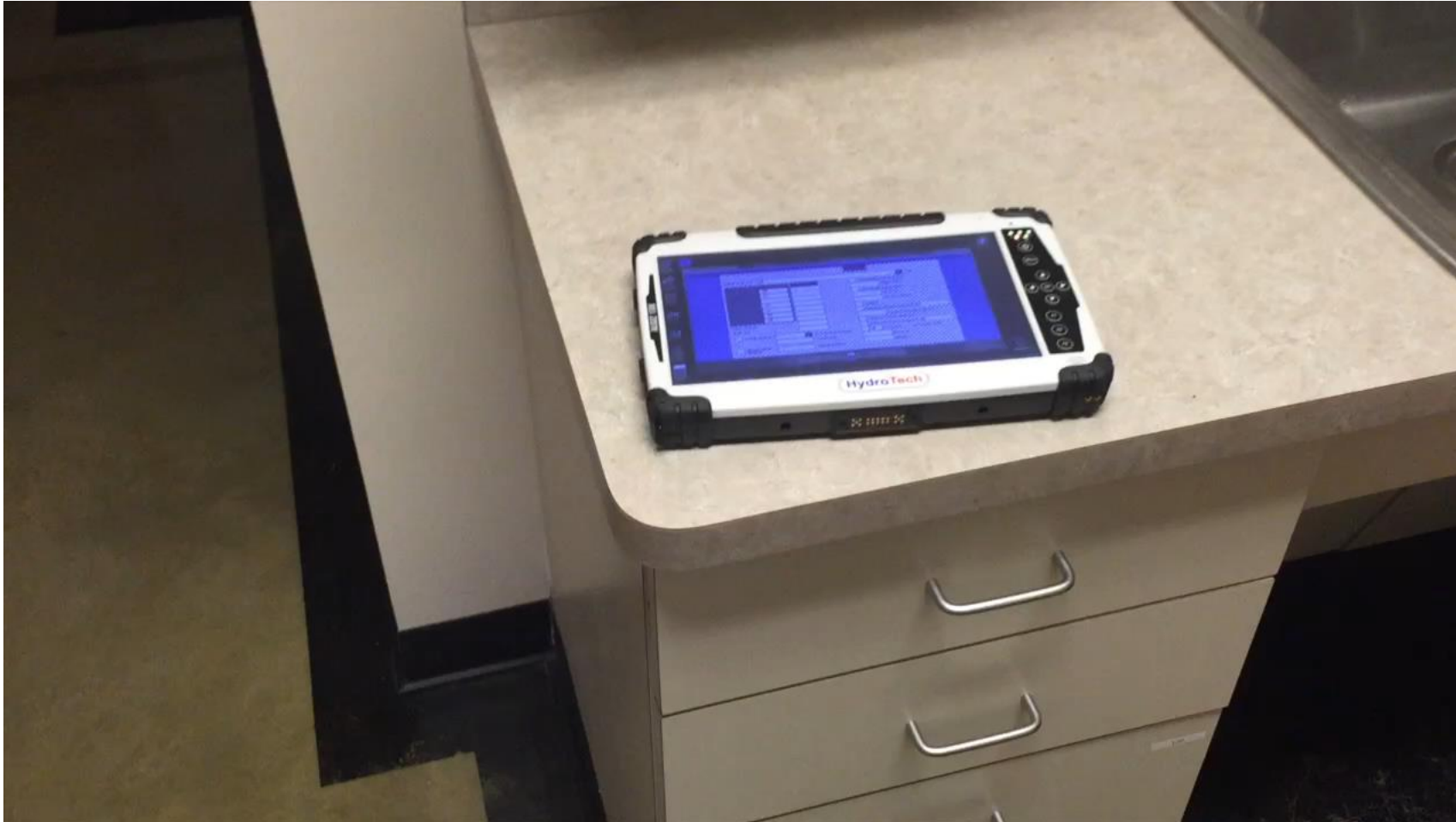
- **Operating:** -20 °C to 60 °C
- **Storage:** -40 °C to 70 °C
- **Drops:** 26 drops from 1.22 m (4 ft)

Can you do a drop test ?

| SOLID OBJECT | MOISTURE |
|---|---|
| 1 Protected against a solid object greater than 50mm such as a hand. | 1 Protected against vertical falling drops of water. Limited ingress permitted. |
| 2 Protected against a solid object greater than 12.5mm such as a finger. | 2 Protected against vertical falling drops of water with enclosure tilted up to 15 degrees from the vertical. Limited ingress permitted. |
| 3 Protected against a solid object greater than 2.5mm such as a screwdriver. | 3 Protected against sprays of water up to 60 degrees from the vertical. Limited ingress permitted. |
| 4 Protected against a solid object greater than 1mm such as a wire. | 4 Protected against water splashes from all directions. Limited ingress permitted. |
| 5 Dust protected. Limited ingress of dust permitted. Will not interfere with operation of the equipment. | 5 Protected against jets of water. Limited ingress permitted. |
| 6 Dust tight. No ingress of dust. | 6 Protected against powerful jets of water. Limited ingress permitted. |
| | 7 Watertight against the effects of immersion in water between 15cm and 1m for 30 minutes. |
| | 8 Watertight against the effects of immersion in water under pressure for long periods. |

IP65
Ingress protection

Drop Test



Power

Standard Battery:

5300 mAh

Extended Battery:

10600 mAh

(Same physical size)

Battery Type:

Li-ion battery pack

Hot-swappable



Communications

Wired Lan (Ethernet): 10/100/1000 Mbps

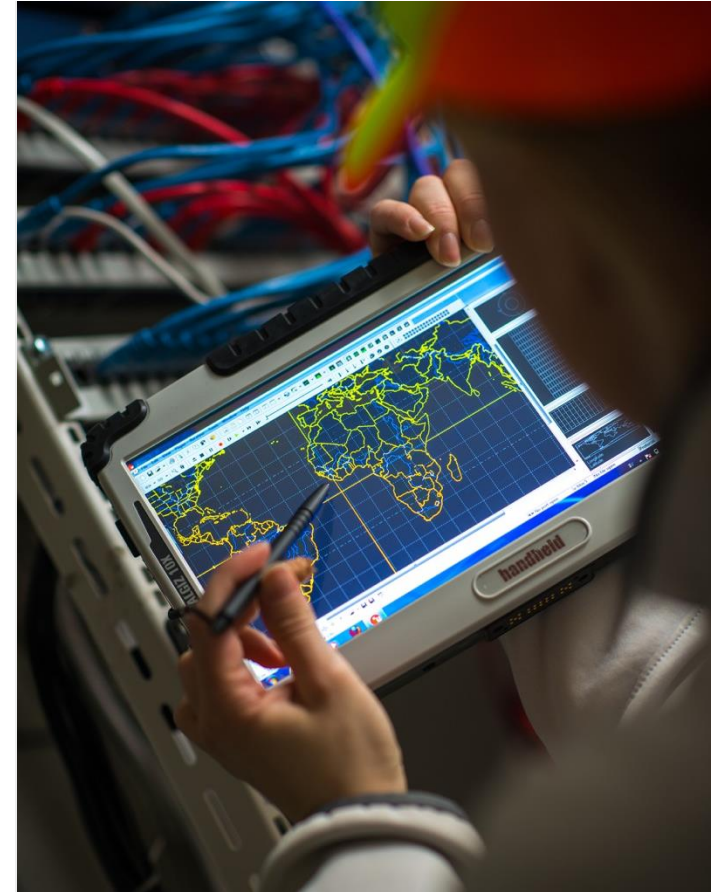
Wireless Lan (WIFI): 802.11ac a/b/g, n
Dual Band 2.4/5 GHz

Bluetooth: Integrated BT v4.0 / v2.1

(Optional)

GSM cellular data:

LTE, HSPA+ (4G), HSPA (3G) & GPRS (2G)



Keypad

10 Keys total

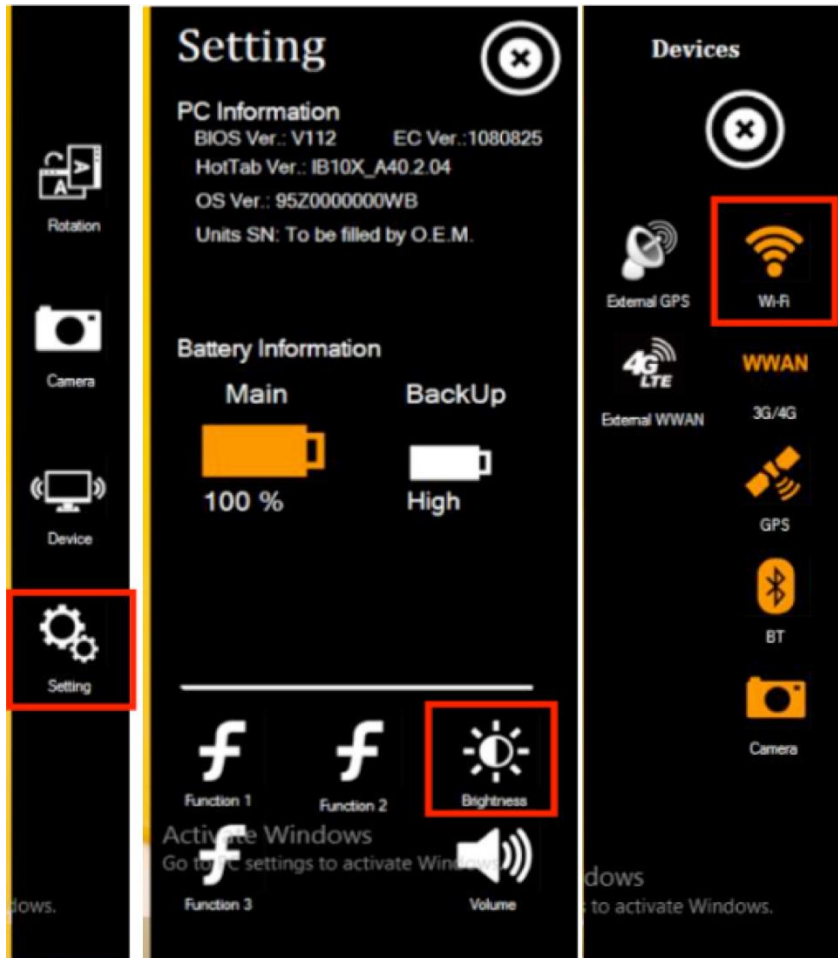
- Power key
- Menu key
- 4+1 Navigation/directional keys
- 3x user programmable buttons
- On-screen QWERTY soft keyboard



Connectivity



Menu



Setting:

- NX10 information
- Batteries status
- Set brightness
- Set volume
- Program F keys

Devices: Turn any device ON or OFF

Camera: Quick access to camera

Rotation: Quick access to screen rotation

Accessories



Carrying case



Pole mount solution



Vehicle dock



Tactical vehicle mount



External charger

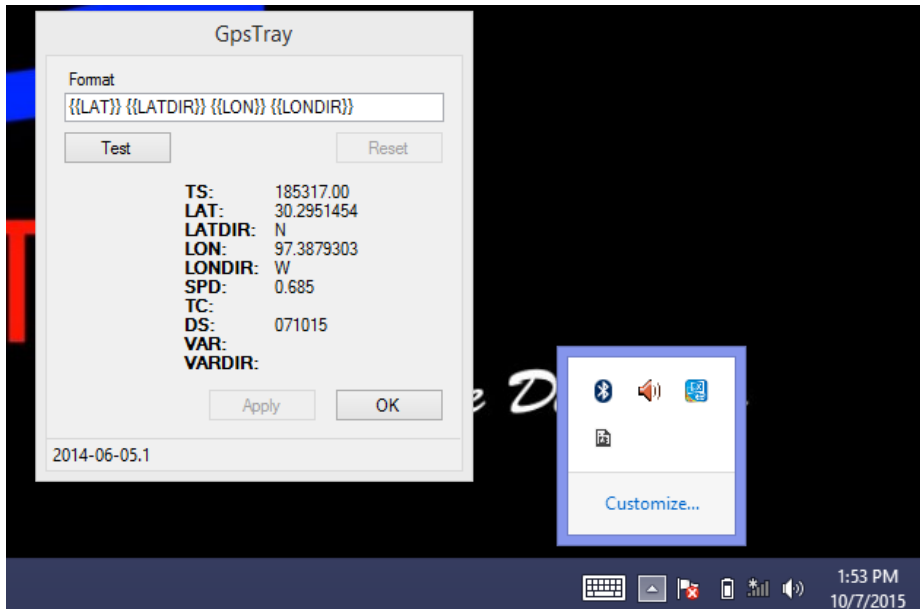
Special Features

- **Built in regulated 8 volts for powering all multiprobes via the DB9 connector.**
- **Menu key for easy and quick access to settings.**
- **End user programmable keys**
- **Custom GPS program with GPS trigger**
- **HydroTerm with automatic data input into forms**

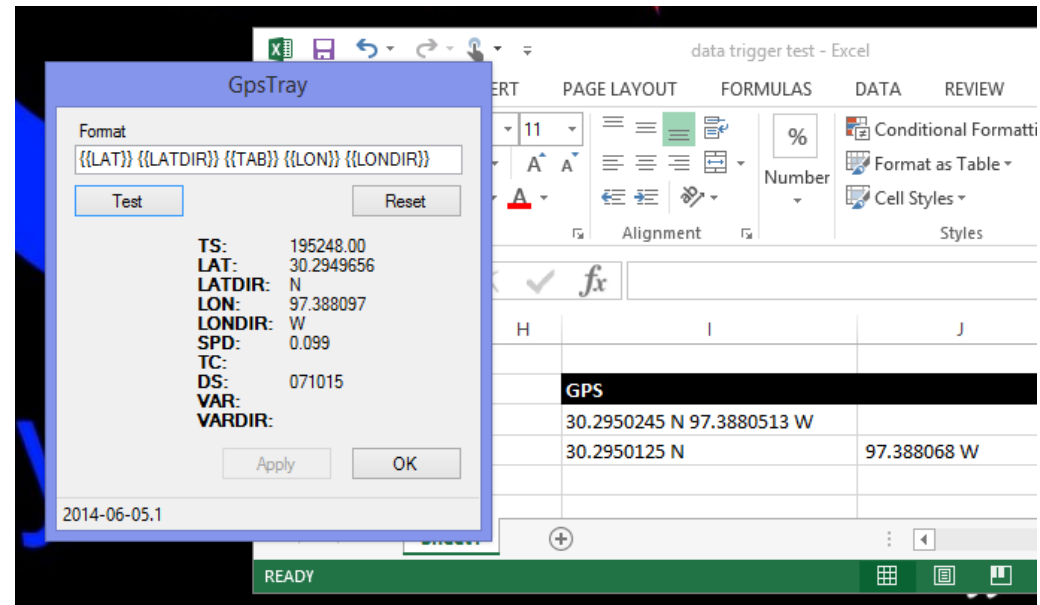
GPS Trigger

Custom GPS program that allows:

The end user to customize the GPS data output form.



Automatic insertion of the GPS data to any form sheet via the keypad.



Multiprobes Interface

YSI® 6 Series, HydroTech Compact Series, & Hydrolab 5 Series

- HydroTerm:

| Date | Time | Temp | SpCond | Depth | pH | pH | ODOsat | ODO | Battery |
|--|----------|-------|--------|--------|------|-------|--------|------|---------|
| m/d/y | hh:mm:ss | C | uS/cm | meters | | mV | % | mg/L | volts |
| *** 1-LOG last sample 2-LOG ON/OFF, 3-Clean optics *** | | | | | | | | | |
| 10/02/15 | 17:11:47 | 24.07 | 828 | -0.111 | 7.60 | -31.9 | 40.4 | 3.39 | 12.9 |
| 10/02/15 | 17:11:47 | 24.07 | 828 | -0.111 | 7.60 | -31.9 | 40.4 | 3.39 | 12.8 |
| 10/02/15 | 17:11:48 | 24.07 | 828 | -0.112 | 7.60 | -31.8 | 40.4 | 3.39 | 12.9 |
| 10/02/15 | 17:11:48 | 24.07 | 828 | -0.112 | 7.59 | -31.8 | 40.4 | 3.39 | 12.9 |
| 10/02/15 | 17:11:49 | 24.07 | 828 | -0.112 | 7.59 | -31.7 | 40.4 | 3.39 | 12.8 |
| 10/02/15 | 17:11:49 | 24.07 | 828 | -0.112 | 7.59 | -31.7 | 40.4 | 3.39 | 12.8 |
| 10/02/15 | 17:11:50 | 24.07 | 828 | -0.112 | 7.59 | -31.7 | 40.4 | 3.39 | 12.9 |
| 10/02/15 | 17:11:50 | 24.07 | 828 | -0.112 | 7.59 | -31.7 | 40.4 | 3.39 | 12.9 |
| 10/02/15 | 17:11:51 | 24.07 | 828 | -0.112 | 7.59 | -31.7 | 40.4 | 3.38 | 12.9 |
| 10/02/15 | 17:11:51 | 24.07 | 828 | -0.112 | 7.59 | -31.7 | 40.3 | 3.38 | 12.9 |
| 10/02/15 | 17:11:52 | 24.07 | 828 | -0.112 | 7.59 | -31.7 | 40.3 | 3.38 | 12.8 |
| 10/02/15 | 17:11:52 | 24.07 | 828 | -0.112 | 7.59 | -31.6 | 40.3 | 3.38 | 12.9 |
| 10/02/15 | 17:11:53 | 24.07 | 828 | -0.112 | 7.59 | -31.6 | 40.3 | 3.38 | 12.9 |
| 10/02/15 | 17:11:53 | 24.07 | 828 | -0.112 | 7.59 | -31.6 | 40.3 | 3.38 | 12.8 |
| 10/02/15 | 17:11:54 | 24.07 | 828 | -0.112 | 7.59 | -31.6 | 40.3 | 3.38 | 12.9 |
| 10/02/15 | 17:11:54 | 24.07 | 828 | -0.112 | 7.59 | -31.6 | 40.3 | 3.38 | 12.8 |
| 10/02/15 | 17:11:55 | 24.07 | 828 | -0.112 | 7.59 | -31.6 | 40.3 | 3.38 | 12.9 |
| 10/02/15 | 17:11:55 | 24.07 | 828 | -0.112 | 7.59 | -31.6 | 40.3 | 3.38 | 12.8 |
| 10/02/15 | 17:11:56 | 24.07 | 828 | -0.112 | 7.59 | -31.6 | 40.3 | 3.38 | 12.8 |
| 10/02/15 | 17:11:56 | 24.07 | 828 | -0.112 | 7.59 | -31.6 | 40.3 | 3.38 | 12.9 |

7894561230. BSESC▲SP◀ENT▶Y▼NABCD E F

MENUNCAL

COM3:19200,8,N,1 CD CTS DSR BREAK RING 00:05:58

Multiprobes Interface

YSI® 6 Series, HydroTech Compact Series, & Hydrolab 5 Series

- **HydroTerm:**

- Compatible with windows 8.1 and Windows 10
- Built in touchpad for easy navigation
- Live data trigger for auto data insertion in a form
- Instantaneous black/white background for better visibility

Multiprobes Interface

YSI® 6 Series

Recycle Bin This PC - Shortcut Intel® HD Graphic... Tablet PC Settings... u-center Acrobat Reader DC Mozilla Firefox HotTab

KOR-EXO Hydroterm

Hydrolab Operati... Hydras3LT

Manta 2 Contro...

Win-Situ 5 Plus

Manuals - Shortcut NX10 2015 HydroTech

data trigger test



Measure the Difference

GpsTray

Format
[[LAT]] [[LATDIR]] [[LON]] [[LONDIR]]

Test

TS: 183714.00
LAT: 30.2949154
LATDIR: N
LON: 97.3882667
LONDIR: W
SPD: 0.888
TC: 111015
DS: 111015
VAR:
VARDIR:

2014-06-05.1

Windows taskbar icons: Start button, File Explorer, Internet Explorer, Google Chrome, Microsoft Word, Microsoft Excel, and a taskbar clock showing 1:38 PM on 10/11/2015.

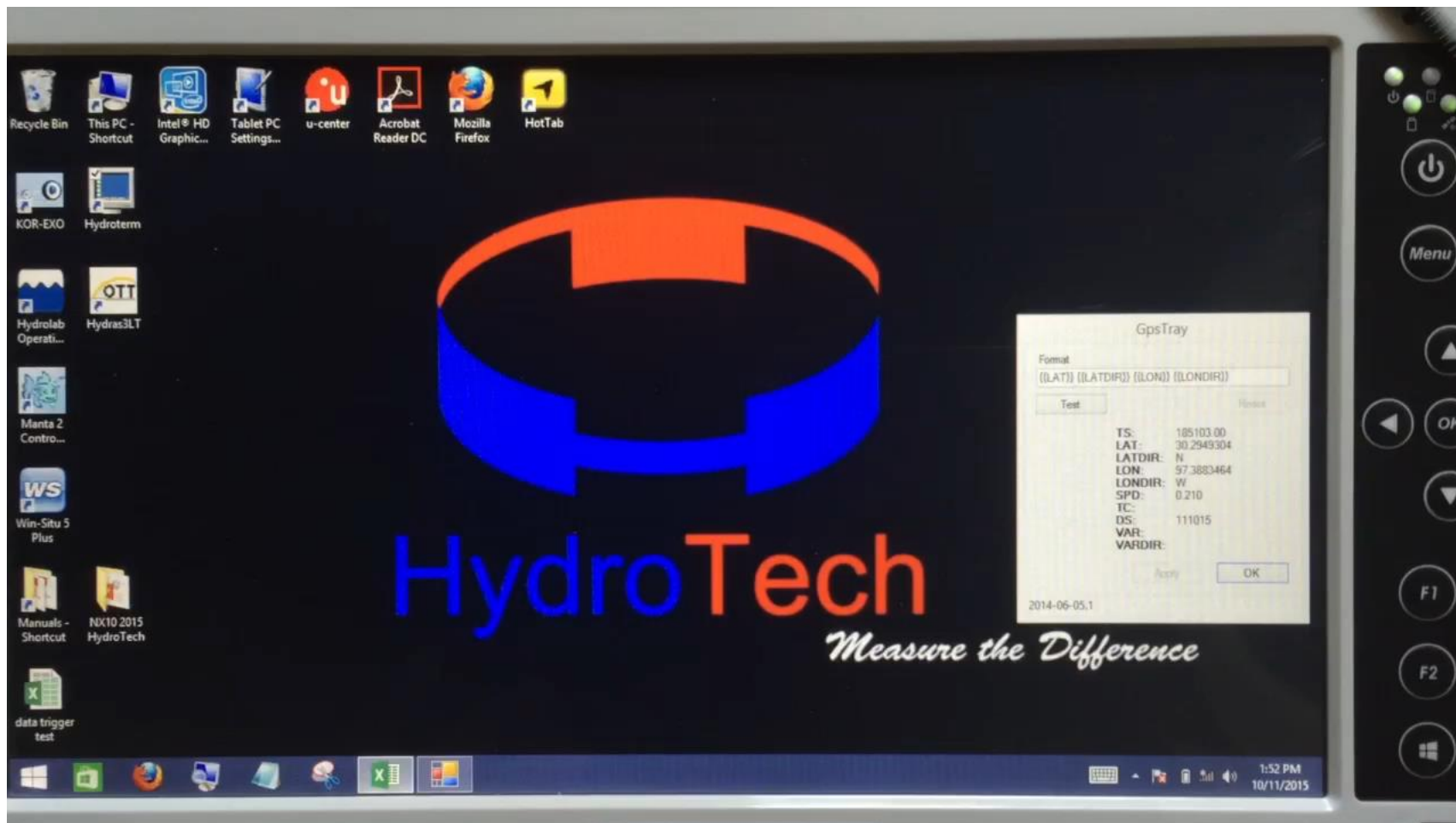
Multiprobes Interface

YSI[®] EXO[®]



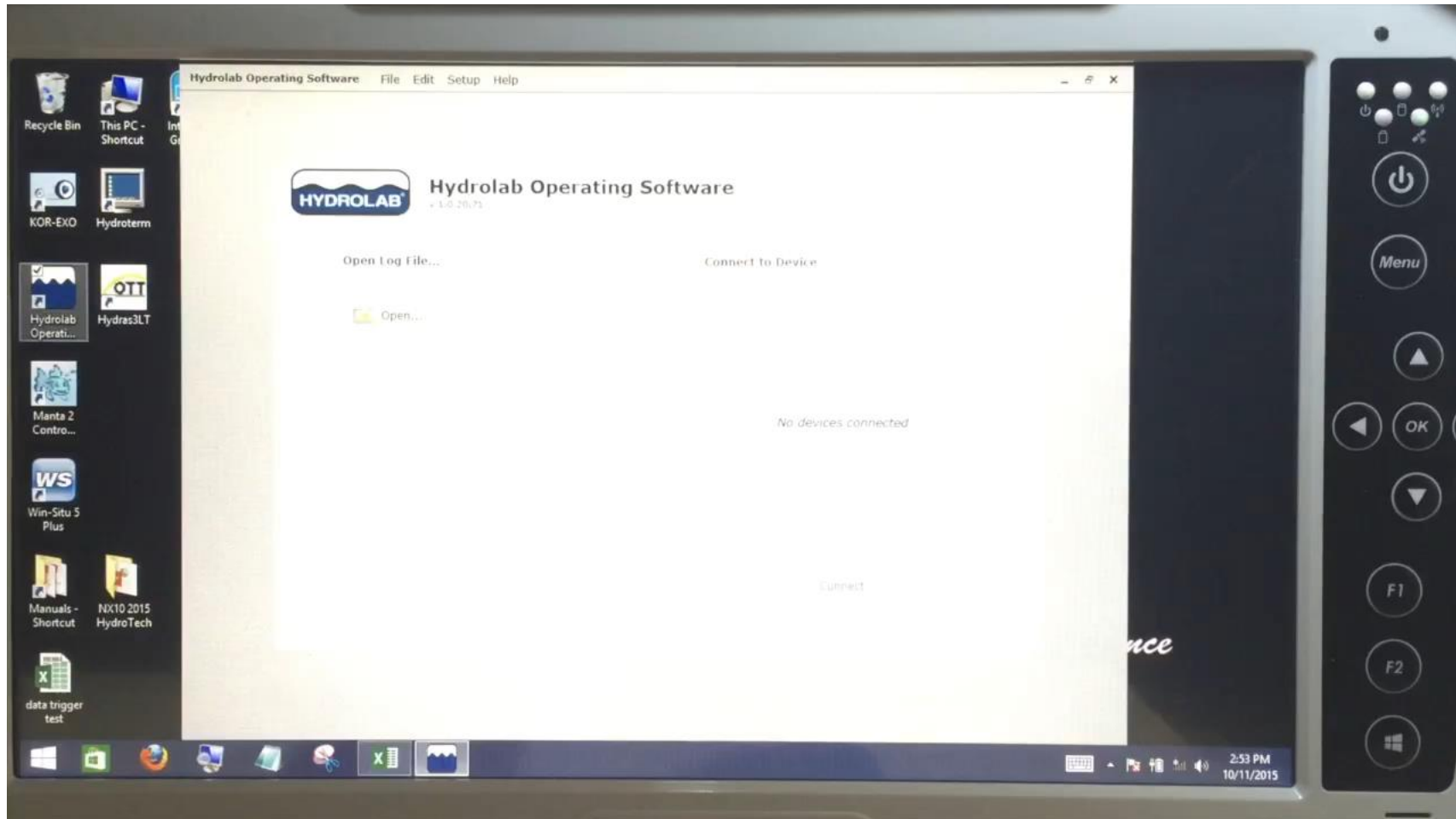
Multiprobes Interface

Hydrolab 5 Series



Multiprobes Interface

Hydrolab HL4

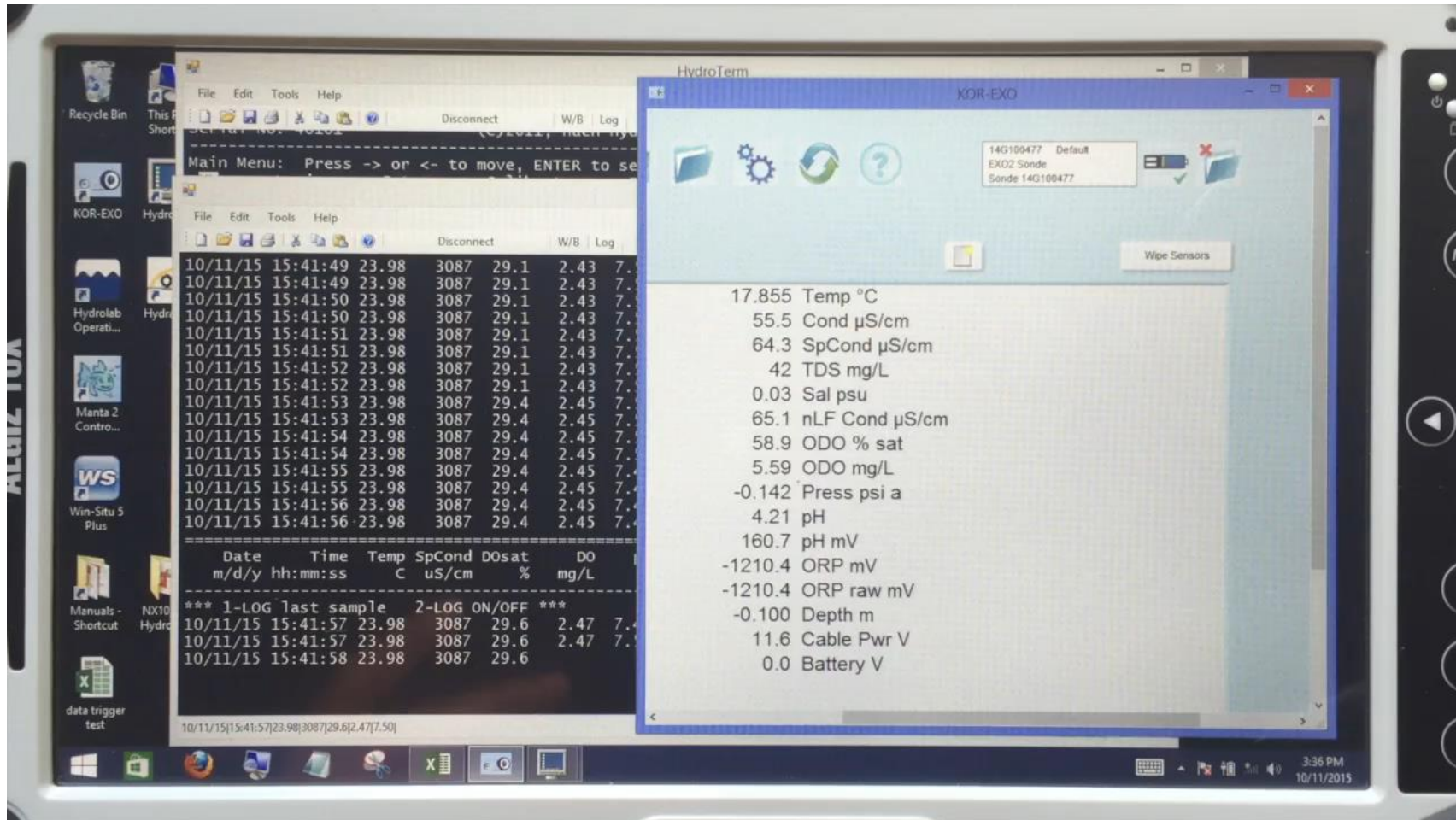


Multiprobes Interface

Eureka Manta



3 Multiprobes at the same time



Converters



Converter for YSI® 6 Series



Converter for YSI® EXO®



Converter for Hydrolab® HL4

No converters needed for:

- The HydroTech Compact Series,
- The Hydrolab® 4A / 5 Series
- The Eureka® Manta

NX10

Thank you

HydroTech

<http://www.hydrotechzs.com>